

Weekly Report

Yuxin Ma

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1 PhD Thesis

I submitted the thesis and other related documents on Friday. Now I only need to wait for five anonymized reviews coming back.

2 Projects

As the PhD thesis is finished, the projects are now back to main road.

2.1 Deep Learning on Trajectory Data

- Model Implementation We implemented the Stacked Autoencoder for flow prediction from Wang Feiyue's paper [1], however the training process is confusingly out of control. We are considering to ask the original authors about training.

Before getting any feedback, we planned to have a meeting on Monday to discuss the entire analysis process.

2.2 DeepVis Review

Currently there are some hard questions from reviewers to answer. Another thing is the new user study which is planned for the coming week.

Table 1: Plan for the Next Week

Target Date	Project	Progress	Problems
11.01	DeepVis Revision		
12.31	Deep learning and trajectories		
Before VIS 2018	Visualizing Reinforcement Learning Algorithms	Still planning	Maybe further literature review

References

- [1] Y. Lv, Y. Duan, W. Kang, Z. Li, and F. Y. Wang, "Traffic Flow Prediction With Big Data: A Deep Learning Approach," IEEE Transactions on Intelligent Transportation Systems, vol. 16, no. 2, pp. 865–873, 2014.